**Project Diary**

**Name:** Youcheng ZHANG

**Programme:** Molecular Technique in Life Science

**Course:** Project in molecular Life science (KB8024/KB8025)

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| **Date** | **Work** |
| Feb 15th, 2018 | 1) Read *Noble WS (2009) A Quick Guide to Organizing Computational Biology Projects. PLOS Computational Biology 5(7): e1000424.* [*https://doi.org/10.1371/journal.pcbi.1000424*](https://doi.org/10.1371/journal.pcbi.1000424)  2) Read [Linux Tips and Tricks](http://bioinfo.se/courses/project-in-molecular-life-science-kb7006/lessons/linux-tips-and-trix/) + [How to organize your project](http://bioinfo.se/courses/project-in-molecular-life-science-kb7006/lessons/organize-project/)  3) Created GitHub account |
| Feb 16th | 1) Practice Bash Command: <http://swcarpentry.github.io/shell-novice/>  2) Practice Git Command: <http://swcarpentry.github.io/git-novice> |
| Feb 17th | 1) Practiced Bash Command, Write bash scripts  2) Start literature search about “Protein secretion”, “Signal peptide”, and “Gram-negative bacteria” |
| Feb 18th | Literature review |
| Feb 19th, 2018 | 1) Reorganized folders on GitHub  2) Finished week1 assignment: createfolder.sh <https://github.com/YouchengZHANG/project/tree/master/assignment/week1> |
| Feb 20th | 1) Updated Project Diary  2) Start literature search about “Signal peptide prediction”, “Machine learning approaches”, “Neural network method” and “Random Forest”  3) Start week2 assignment: Summary of 5 relevant papers  4) Finished Python Command: <http://swcarpentry.github.io/python-novice-inflammation/> |
| Feb 21st | 1) Write and Add week2 assignment: List\_of\_papers\_and\_Summary.pdf  <https://github.com/YouchengZHANG/project/tree/master/assignment/week2>  2) Read *Costa, T. R. et al. Secretion systems in Gram-negative bacteria: structural and mechanistic insights. Nature reviews. Microbiology* ***13****, 343-359, doi: 10.1038/nrmicro3456 (2015).*  3) Read *Chou, K. C. Prediction of protein signal sequences. Current protein & peptide science* ***3****, 615-622 (2002).*  4) Write week2 assignment: Project\_plan |
| Feb 22nd |  |
| Feb 23rd |  |
| Feb 24th |  |
| Feb 25th |  |
| Feb 26th, 2018 |  |
| Feb 27th |  |
| Feb 28th |  |
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